Refine Search

Search Results -

Terms	Documents
L8 and terephthalic acid.ti.	5

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L9			Refine Search
	Recall Text	oraș I	Interrent

Search History

DATE: Sunday, May 22, 2005 Printable Copy Create Case

Set Name side by side		Hit Count	
•			result set
DB=P(GPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD;	Ŋ	
<u>L9</u>	L8 and terephthalic acid.ti.	5	<u>L9</u>
<u>L8</u>	L7 and oxid\$6 and hydrogen	28	<u>L8</u>
<u>L7</u>	L6 and separ\$6 and catalyst	28	<u>L7</u>
<u>L6</u>	L5 and 562/\$	28	<u>L6</u>
<u>L5</u>	L4 and (carbooxybenzaldehyde or trimellitic acid or fluorenenone)	96	<u>L5</u>
<u>L4</u>	L3 and impurit\$6	468	<u>L4</u>
<u>L3</u>	L2 and (filter or centrifuge)	1426	<u>L3</u>
<u>L2</u>	TEREPHTHALIC ACID AND SLURRY AND B AND COLOR	2729	<u>L2</u>
L1	TERPHTHALIC ACID AND SLURRY AND B AND COLOR	16	Ϊ 1

END OF SEARCH HISTORY

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 10 of 28 returned.

1. Document ID: US 20050065373 A1

L8: Entry 1 of 28

File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050065373

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050065373 A1

TITLE: Process for the purification of a crude carboxylic acid slurry

PUBLICATION-DATE: March 24, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Sumner, Charles Edwan JR. Kingsport TN US Gibson, Philip Edward Kingsport TN US Lin, Robert Kingsport TN US Fugate, Eric Jackson Gate City VA US Arnold, Ernest William Lake Wylie scUS

US-CL-CURRENT: 562/600

© Full © Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC D	fiftle Title	Citation Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC Drai
---	--------------	----------------	--------	----------------	------	-----------	-----------	-------------	--------	-----------

2. Document ID: US 20040199006 A1

L8: Entry 2 of 28

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199006

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199006 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47
Graham, Derek Alexander Cleveland GB
Hamley, Paul Anthony Nottingham GB
Oliver, Raymond Stockton On Tees GB

Poliakoff, Martyn Nottingham GB

Woodcock, Duncan C.

Cheshire

GB

Ilkenhans, Thomas

Cambridge

GB

US-CL-CURRENT: <u>562/412</u>

Full	. Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw.:De

3. Document ID: US 20040110981 A1

L8: Entry 3 of 28

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110981

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110981 A1

TITLE: Process for the oxidative purification of terephthalic acid

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sheppard, Ronald Buford Voorburg TN NL Tennant, Brent Alan Kingsport TNUS Woodruff, Thomas Earl Kingsport TN US Lin, Robert Kingsport US

US-CL-CURRENT: <u>562/486</u>; <u>562/606</u>

Full* Title Citation F	ront	Review Classification	Date	Reference	Sequences	Attachments:	Claims	KWWC Draw D
						-		

4. Document ID: US 20040110980 A1

L8: Entry 4 of 28

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110980

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110980 A1

TITLE: Process for the oxidative purification of terephthalic acid

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sheppard, Ronald Buford Voorburg TN NL Tennant, Brent Alan Kingsport TNUS Woodruff, Thomas Earl Kingsport TN US Lin, Robert Kingsport US

US-CL-CURRENT: <u>562/413</u>; <u>562/486</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

5. Document ID: US 20020028968 A1

L8: Entry 5 of 28

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

CITY	STATE	COUNTRY	RULE-47
Cleveland		GB	
Nottingham		GB	
Cambridge		GB	
Stockton on Tees		GB	
Nottingham		GB	
Cheshire		GB	
	Cleveland Nottingham Cambridge Stockton on Tees Nottingham	Cleveland Nottingham Cambridge Stockton on Tees Nottingham	Cleveland GB Nottingham GB Cambridge GB Stockton on Tees GB Nottingham GB

US-CL-CURRENT: 562/415

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments Clai	ms KWC Draw De

***************************************	•		***********	•••••••••					

6. Document ID: US 20020002304 A1

L8: Entry 6 of 28

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002304

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002304 A1

TITLE: PROCESS OF PURIFYING AND PRODUCING HIGH PURITY AROMATIC POLYCARBOXYLIC ACIDS

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

LIN, TSONG-DAR VINCENT HOUSTON TX US

US-CL-CURRENT: <u>562/485</u>; <u>562/486</u>

Full . Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

Record List Display Page 4 of 5

7. Document ID: US 6765113 B2

L8: Entry 7 of 28

File: USPT

Jul 20, 2004

Sep 10, 2002

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

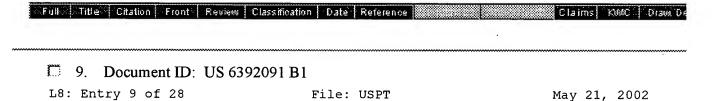
TITLE: Production of aromatic carboxylic acids ·

Full Title Citation Front Review Classification Date Reference Claims KMC Draw De 8. Document ID: US 6448436 B1 L8: Entry 8 of 28 File: USPT

US-PAT-NO: 6448436

DOCUMENT-IDENTIFIER: US 6448436 B1

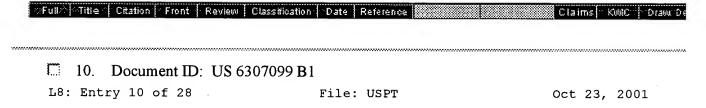
TITLE: Integrated process for the production of 2, 6-naphthalene dicarboxylic acid



US-PAT-NO: 6392091

DOCUMENT-IDENTIFIER: US 6392091 B1

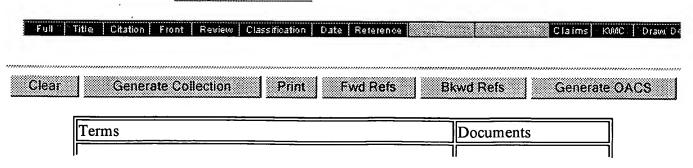
TITLE: Process of purifying and producing high purity aromatic polycarboxylic acids



US-PAT-NO: 6307099

DOCUMENT-IDENTIFIER: US 6307099 B1

TITLE: Production of terephthalic acid



L7 and oxid\$6 and hydrogen		28	
	•		

Change Format Display Format:

Previous Page Go to Doc# Next Page

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 10 of 28 returned.

1. Document ID: US 20050065373 A1

L8: Entry 1 of 28

File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050065373

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050065373 A1

TITLE: Process for the purification of a crude carboxylic acid slurry

PUBLICATION-DATE: March 24, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Sumner, Charles Edwan JR. Kingsport TNUS Gibson, Philip Edward Kingsport TNUS Lin, Robert Kingsport TN US Fugate, Eric Jackson Gate City VΑ US Arnold, Ernest William Lake Wylie SC US

US-CL-CURRENT: 562/600

Full Title Citation Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims "KMC"	Drave De

2. Document ID: US 20040199006 A1

L8: Entry 2 of 28

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199006

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199006 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Graham, Derek Alexander Cleveland GB

Hamley, Paul Anthony Nottingham GB
Oliver, Raymond Stockton On Tees GB
Poliakoff, Martyn Nottingham GB

Woodcock, Duncan C.

Cheshire

GB

Ilkenhans, Thomas

Cambridge

GB

US-CL-CURRENT: <u>562/412</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawa De

3. Document ID: US 20040110981 A1

L8: Entry 3 of 28

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110981

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110981 A1

TITLE: Process for the oxidative purification of terephthalic acid

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Sheppard, Ronald Buford Voorburg TN NLTennant, Brent Alan Kingsport TN US Woodruff, Thomas Earl Kingsport TN US Lin, Robert Kingsport US

US-CL-CURRENT: <u>562/486</u>; <u>562/606</u>

Full Title Citation Front	Review Classification	Date Reference	Sequences	Attachments	Claims	KWMC Drawn D

4. Document ID: US 20040110980 A1

L8: Entry 4 of 28

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110980

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110980 A1

TITLE: Process for the oxidative purification of terephthalic acid

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Sheppard, Ronald Buford Voorburg TN NT. Tennant, Brent Alan Kingsport TNUS Woodruff, Thomas Earl Kingsport TN US Lin, Robert Kingsport US

US-CL-CURRENT: 562/413; 562/486

Record List Display Page 3 of 5

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

5. Document ID: US 20020028968 A1

L8: Entry 5 of 28

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Graham, Derek Alexander	Cleveland		GB	
Hamley, Paul Anthony	Nottingham		GB	
Ilkenhans, Thomas	Cambridge		GB	
Oliver, Raymond	Stockton on Tees		GB	•
Poliakoff, Martyn	Nottingham		GB	
Woodcock, Duncan C.	Cheshire		GB	

US-CL-CURRENT: 562/415

Full- Til	lle Ci	tation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWWC D
		ranon j	1 10111	11/20/200	Chassingation) Nare	(iveresettus	- Sequences	Anachinents	Clanus	KONC D

6. Document ID: US 20020002304 A1

L8: Entry 6 of 28

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002304

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002304 A1

TITLE: PROCESS OF PURIFYING AND PRODUCING HIGH PURITY AROMATIC POLYCARBOXYLIC ACIDS

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

LIN, TSONG-DAR VINCENT HOUSTON TX US

US-CL-CURRENT: <u>562/485</u>; <u>562/486</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De

Record List Display Page 4 of 5

7. Document ID: US 6765113 B2

L8: Entry 7 of 28

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

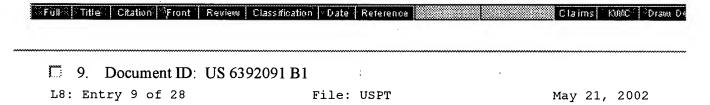
TITLE: Production of aromatic carboxylic acids

Full Title Citation Front Review Classification Date Reference Claims KNNC Draw De 8. Document ID: US 6448436 B1 L8: Entry 8 of 28 Sep 10, 2002 File: USPT

US-PAT-NO: 6448436

DOCUMENT-IDENTIFIER: US 6448436 B1

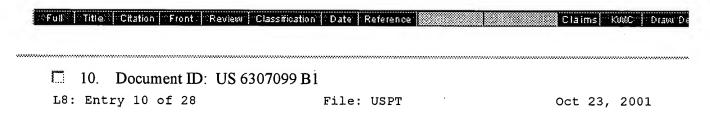
TITLE: Integrated process for the production of 2, 6-naphthalene dicarboxylic acid



US-PAT-NO: 6392091

DOCUMENT-IDENTIFIER: US 6392091 B1

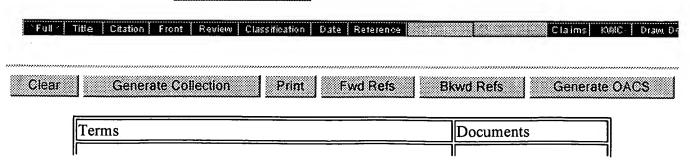
TITLE: Process of purifying and producing high purity aromatic polycarboxylic acids



US-PAT-NO: 6307099

DOCUMENT-IDENTIFIER: US 6307099 B1

TITLE: Production of terephthalic acid



L7 and oxid\$6 and hydrogen	28

Display Format: |-Change Format

Previous Page Next Page Go to Doc#

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 11 through 20 of 28 returned.

11. Document ID: US 6291707 B1

L8: Entry 11 of 28

File: USPT

Sep 18, 2001

Feb 27, 2001

US-PAT-NO: 6291707

DOCUMENT-IDENTIFIER: US 6291707 B1

TITLE: Process of purifying and producing high purity aromatic polycarboxylic acids

and derivatives thereof

In 12. Document ID: US 6255525 B1
L8: Entry 12 of 28

Claims Clai

US-PAT-NO: 6255525

DOCUMENT-IDENTIFIER: US 6255525 B1

** See image for <u>Certificate of Correction</u> **

TITLE: Process for preparing purified carboxylic acids

Full: Title Citation Front Review Classification Date Reference Claims Runc Draws De

File: USPT

US-PAT-NO: 6194609

DOCUMENT-IDENTIFIER: US 6194609 B1

L8: Entry 13 of 28

TITLE: Crystallization in a plate heat exchanger

Full Title Citation Front Review Classification Date Reference Claims KW/C Draw Do

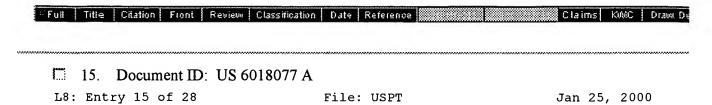
14. Document ID: US 6133476 A

L8: Entry 14 of 28 File: USPT Oct 17, 2000

US-PAT-NO: 6133476

DOCUMENT-IDENTIFIER: US 6133476 A

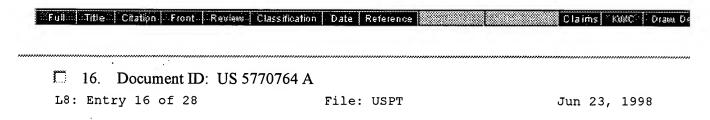
TITLE: Process for purification of aromatic polycarboxylic acids



US-PAT-NO: 6018077

DOCUMENT-IDENTIFIER: US 6018077 A

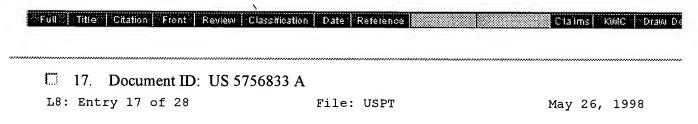
TITLE: Process for producing 2,6-naphthalenedicarboxylic acid



US-PAT-NO: 5770764

DOCUMENT-IDENTIFIER: US 5770764 A

TITLE: Process for preparing purified aromatic polycarboxylic acids

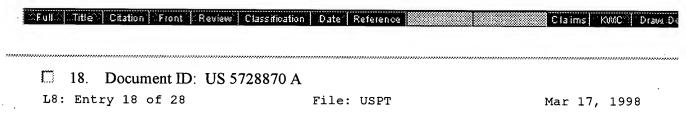


US-PAT-NO: 5756833

DOCUMENT-IDENTIFIER: US 5756833 A

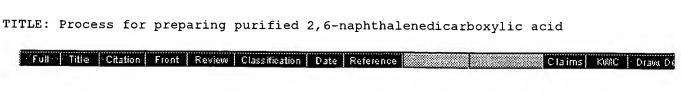
** See image for <u>Certificate of Correction</u> **

TITLE: Catalytic purification and recovery of dicarboxylic aromatic acids



US-PAT-NO: 5728870

DOCUMENT-IDENTIFIER: US 5728870 A



19. Document ID: US 5629446 A

L8: Entry 19 of 28

File: USPT

May 13, 1997

US-PAT-NO: 5629446

DOCUMENT-IDENTIFIER: US 5629446 A

** See image for <u>Certificate of Correction</u> **

TITLE: Process for preparing purified 2,6-naphthalenedicarboxylic acid

Full Title Citation Front Review Clas	ssification Date Reference	Claims KMC Draw D
		······
20. Document ID: US 5616	792 A	
L8: Entry 20 of 28	File: USPT	Apr 1 1997

US-PAT-NO: 5616792

DOCUMENT-IDENTIFIER: US 5616792 A

** See image for <u>Certificate of Correction</u> **

TITLE: Catalytic purification of dicarboxylic aromatic acid

Full	Title Citation		Review	Classification	Date	Reference			Claims	KWIC	Drawi De	
		······					·····	·····	······		······	
Clear	Genera			Print	38 2000	wd Refs	В	wd Refs	Genera		00000000000000 8	
								-				
	Terms							Documer	nts			
	L7 and oxid\$6 and hydrogen						28					
***************************************		************		***************************************	************	***************************************						

Display Format: - Change Format

Previous Page Next Page Go to Doc#

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 21 through 28 of 28 returned.

21. Document ID: US 5563294 A

L8: Entry 21 of 28

File: USPT

Oct 8, 1996

US-PAT-NO: 5563294

DOCUMENT-IDENTIFIER: US 5563294 A

** See image for <u>Certificate of Correction</u> **

TITLE: Process for preparing purified 2,6-naphthalenedicarboxylic acid

Full Title Citation Front Review Classification Date Reference Citation Claims KMC Draw De

22. Document ID: US 5354898 A

L8: Entry 22 of 28

File: USPT

Oct 11, 1994

US-PAT-NO: 5354898

DOCUMENT-IDENTIFIER: US 5354898 A

TITLE: Method for purifying crude aromatic carboxylic acids

23. Document ID: US 5200557 A

L8: Entry 23 of 28

File: USPT

Apr 6, 1993

US-PAT-NO: 5200557

DOCUMENT-IDENTIFIER: US 5200557 A

TITLE: Process for preparation of crude terephthalic acid suitable for reduction to

prepare purified terephthalic acid

24. Document ID: US 5112992 A

L8: Entry 24 of 28

File: USPT

May 12, 1992

US-PAT-NO: 5112992

DOCUMENT-IDENTIFIER: US 5112992 A

TITLE: Production of polycarboxylic acids with hafnium-activated cobalt catalyst

Full Title Citation Front Review Classification Date Reference Claims KAMC Draw De 25. Document ID: US 5095135 A

File: USPT

US-PAT-NO: 5095135

DOCUMENT-IDENTIFIER: US 5095135 A

L8: Entry 25 of 28

TITLE: Process for the preparation of high-purity naphthalenecarboxylic acid esters

SEFUIL Title Catation Front, Review Classification Date Reference Claims - KMC - Draw De 26. Document ID: US 4948921 A

L8: Entry 26 of 28

File: USPT

Aug 14, 1990

Mar 10, 1992

US-PAT-NO: 4948921

DOCUMENT-IDENTIFIER: US 4948921 A

** See image for <u>Certificate of Correction</u> **

TITLE: Process for the production and recovery of trimellitic acid

Full Title Citation Front Review Classification Date Reference Claims KMC Draw De

27. Document ID: US 4755622 A

L8: Entry 27 of 28

File: USPT

Jul 5, 1988

US-PAT-NO: 4755622

DOCUMENT-IDENTIFIER: US 4755622 A

** See image for <u>Certificate of Correction</u> **

TITLE: Process for the production of trimellitic acid and pyromellitic acid by

staged bromine addition in an oxidation of polyalkylaromatics

Full Title Citation Front Review Classification Date Reference Claims KNNC Draw De 28. Document ID: US 4675438 A

L8: Entry 28 of 28

File: USPT

Jun 23, 1987

US-PAT-NO: 4675438

DOCUMENT-IDENTIFIER: US 4675438 A

** See image for <u>Certificate of Correction</u> **

TITLE: Direct continuous flow integration of production and purification of high

purity iso- or terephthalic acid

Full	Title	Citation	Frent	Review	Classification	Date	Reference				Cla	ims }	086C	Draw, Di
~~~~~	~~~		*************		••••••	······································					*******			*************
Clear		Gener	ate Col	lection	Print	]F	wd Refs	E	kwd R	efs	Ge	nerati	OA	CS
	Ter	ms							Dog	ıments			ח	
		L7 and oxid\$6 and hydrogen								inchis		28		

Display Format: - Change Format

Previous Page Next Page Go to Doc#